In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

Listing of the Claims

1.   (Currently Amended) A method of preparing results from predicting the ability of an existing line to support high-speed access comprising the steps of:

receiving the results of line testing for high speed access from a test system making single-ended measurements on a selected line; and

binning the test results into one of at least three categories, wherein a first of said at least three categories indicates the selected line cannot support high speed access, wherein a second of said at least three categories indicates the selected line can support high speed access, and wherein a third of said at least three categories indicates the selected line cannot currently support high speed access but could be altered to support high speed access.

2.   (Currently Amended) The method of claim 1 wherein said step of binning the test results further comprises a fourth category, wherein said fourth category indicates the ~~characteristics~~ test results of the selected line can not reliably be assigned to one of the at least three categories ~~are undetermined~~.

3.   (Original) The method of claim 1 wherein said step of receiving the results of line testing comprises receiving the results of line testing for ISDN access.

4.   (Original) The method of claim 1 wherein said step of receiving the results of line testing comprises receiving the results of line testing for xDSL access.

5.   (Original) The method of claim 4 wherein said step of receiving the results of line testing for xDSL access comprises receiving the results of line testing for ADSL access.

6.   (Original) The method of claim 5 wherein said step of receiving the results of line testing for ADSL access comprises receiving the results of line testing for at least one of G.dmt access and G.lite access.

7.   (Original) The method of claim 1 further comprising the step of color-coding each of said categories, wherein each category has a respective color.

8.   (Currently Amended) The method of claim 1 wherein said step of binning the test results further comprises assigning the selected line to said third of at least three categories when the test results indicate the selected line would be able to support high speed access upon removal of an impediment on selected line.

9.   (Original) The method of claim 8 wherein said impediment is selected from the group consisting of a load coil and a bridged tap.

10.   (Currently Amended) The method of claim 1 further comprising the step of billing for service provided over said selected line based on the data rate supported by said selected line.

11.   (Original) The method of claim 7 wherein said step of color-coding comprises coding said first of said at least three categories red, said second of said at least three categories green and said third of said at least three categories yellow.

12.   (Previously Presented) The method of claim 2 further comprising the step of color-coding each of said categories, and said fourth category is color-coded gray.

13.   (Original) The method of claim 1 further comprising the initial step of testing a line.

14.   (Original) The method of claim 13 wherein said step of testing a line comprises the steps of:

driving said line with a signal;

measuring said line;

estimating characteristics of said line from the results of said measuring said line

and

predicting a data rate supportable by said line from said line characteristics.

15.   (Currently Amended) The method of claim 14 wherein said step of estimating
characteristics of said line includes at least one of:

estimating an insertion loss of said line;

estimating a phase imbalance of said line;

estimating a length of said line;

estimating a gauge of said line;

determining the presence of gauge changes of said line;

determining the presence of a bridged tap on said line;

determining the presence of a load coil on said line; and

determining the presence of other path elements on said line.

16.   (Original) The method of claim 15 wherein said step of determining the presence
of other path elements includes at least one of:

determining the presence of a splitter;

determining the presence of a filter; and

determining the presence of a termination.

17.   (Original) The method of claim 13 further comprising the step of predicting the
dependability of said line testing.

18.   (Previously Presented) The method of claim 13 further comprising the step of
predicting the reliability of said line testing.

19.   (Currently Amended) A computer program product for preparing results from
predicting the ability of an existing line to support high speed access, the computer

program product comprising a computer usable medium having computer readable code thereon, including program code comprising:

      instructions for causing a test unit to receive the results of line testing for high speed access; and

      instructions for causing said test unit to bin the results into one of a least three categories, wherein a first of said at least three categories indicates the selected line cannot support high speed access, wherein a second of said at least three categories indicates the selected line can support high speed access, and wherein a third of said at least three categories indicates the selected line ~~cannot currently support~~ <u>has a condition creating an impediment to</u> high speed access <u>that can be removed</u>.

20.   (Previously Presented) The computer program product of claim 19 further comprising instructions for causing said test unit to bin the test results into a fourth category, said fourth category indicating the characteristics are undetermined.

21.   (Original) The computer program product of claim 19 wherein said high-speed access comprises ISDN access.

22.   (Original) The computer program product of claim 19 wherein said high-speed access comprises xDSL access.

23.   (Original) The computer program product of claim 22 wherein said xDSL access comprises ASDSL access.

24.   (Original) The computer program product of claim 23 wherein said ADSL access comprises at least one of G.lite access and G.dmt access.

25.   (Original) The computer program product of claim 19 further comprising instructions for color-coding each of said categories, wherein each category has a respective color.

26.   (Original) The computer program product of claim 19 wherein said third of at least three categories could support high speed access upon removal of an impediment on said selected line.

27.   (Original) The computer program product of claim 26 wherein said impediment is selected from the group consisting of a load coil and a bridged tap.

28.   (Original) The computer program product of claim 19 further comprising instructions for billing for said selected line based on the data rate supported by said selected line.

29.   (Original) The computer program product of claim 19 wherein said first of said at least three categories is color-coded red, said second of said at least three categories is color coded green and said third of said at least three categories is color-coded yellow.

30.   (Original) The computer program product of claim 20 wherein said fourth category is color-coded gray.

31.   (Original) The computer program product of claim 19 further comprising instructions for causing a test unit to test a line.

32.   (Currently Amended) The computer program product of claim 31 wherein said instructions for causing a test unit to test a line include[[s]]instructions for causing a test unit to perform at least one of:

driving said line with a signal;

measuring said line;

estimating characteristics of said line from the results of said measuring said line; and

predicting a data rate supportable by said lien from said line characteristics.

33.   (Original) The computer program product of claim 32 wherein said instructions
for estimating characteristics of said line include instructions to perform at least one of:

estimating an insertion loss of said line;

estimating a phase imbalance of said line;

estimating a length of said line;

estimating a gauge of said line;

determining the presence of gauge changes of said line;

determining the presence of a bridged tap on said line;

determining the presence of a load coil on said line; and

determining the presence of other path elements on said line.

34.   (Original) The computer program product of claim 33 wherein said instructions
to perform determining the presence of other path elements includes instructions to perform at
least one of:

determining the presence of a splitter;

determining the presence of a filter; and

determining the presence of a termination.

35.   (Original) The computer program product of claim 31 further comprising
instructions for causing said test unit to predict the dependability of said line testing.

36.   (Previously Presented) The computer program product of claim 31 further
comprising instructions for causing said test unit to predict the reliability of said testing.

37.   (Previously Presented) A method of predicting the data rate of a line for carrying
signals between a near end and a far end modem, comprising:

a)   providing information that predicts data rate on a line for each of a
plurality of line models;

b)   making measurements on the line and using the measurements to select
one of the plurality of line models to represent the line;

      c)   selecting the data rate from the information provided for the selected line model.

38.   (Original) The method of claim 37 wherein the provided information that predicts data rate includes rates for upstream and downstream data transmissions.

39.   (Currently Amended) The method of claim 37 wherein the plurality of line models includes models of lines of differing lengths.

40.   (Original) The method of claim 37 wherein the plurality of line models include models of lines having bridge taps at differing locations.

41.   (Original) The method of claim 37 wherein the step of providing information that predicts data rate on a line for each of a plurality of line models comprises:

      a)   providing sets of data, each data set providing information that predicts the data rate using a particular near end and far end modem, and

      b)   selecting one of the data sets based on the pair of modems used on the line.

42.   (Previously Presented) A method of predicting the data rate of a line under test within a cable bundle, comprising:

      a)   determining a model of noise on the line from a prediction of the number of disturbing signals that are carried within the cable bundle; and

      b)   de-rating the performance of the line based on the noise model.

43.   (Original) The method of claim 42 wherein the step of de-rating comprises:

      a)   measuring in advance performance of a plurality of model lines when a plurality of combinations of disturbing signals are present;

      b)   measuring characteristics of the line under test and matching the line under test to one of the plurality of model lines;

c)   selecting one of the combinations of disturbing signals expected to be
present in the cable bundle;

d)   predicting the data rate by selecting an advanced measurement that
correlates with the matched line model and the selected combination of disturbing
signals.